me of Work:- Improvements to roads and drains in Byatarayanapura Gramatana in ward .07, Byatarayanapura

timated Cost:- 50.00 Lakhs

N	DESCRIPTION OF WORK	Unit	N	L	B	D	QTY	RATE	AMOUNT
	2	3	4	5	6	7	8	9	10
1	KSRRB 300-1. Earthwork excavation by manual means in rodinary soil involving an average horizontal throw upto 2 m and an average lift upto 1.5m, excavated surafce levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking clods complete as per specifications.. Pg No.141.Item No.19.1)								
	Basic Rate:	cum	**82.00**						
	Area Weightage @ 6%		4.92						
	Total		**86.92**						
	RCC DRAIN								
	Gramatana Road		1	75.00	0.75	0.90	50.29		
	CC ROAD								
	MAIN ROAD		1	235.00	4.50	0.25	264.38		
	ROAD JOINING TO NH		1	75.00	4.00	0.20	60.00		
	ROAD TOWARDS SWD		1	75.00	4.00	0.20	60.00		
					TOTAL		**434.66**	86.92	37781.00
2	KSRB 4-1.3: Providing and laying in position plain cement concrete of nominal mix 1:4:8 using 40mm and down size graded granite metal machine mixed, conrete laid in layers not exceeding 15 cms. Thick well compacted in foundation and plinth, including cost of all materials labour, HOM of machinery, curing complete as per specification . **(Pg.No.12, It.4.3)**								
	Basic Rate:	cum	4867.00						
	Area Weightage @ 6%		292.02						
	Total		5159.02						
	RCC DRAIN								
	Gramatana Road		1.00	75.00	0.75	0.15	8.38		
							8.38		
	CC ROAD								
	MAIN ROAD		1.00	235.00	4.50	0.15	158.63		
	ROAD JOINING TO NH		1.00	75.00	4.00	0.15	43.50		
	ROAD TOWARDS SWD		1.00	75.00	4.00	0.15	45.00		
							247.13		
					TOTAL		**255.51**	5159.02	1318162.00

3	Providing **TMT Steel Reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.(Page No.17, Item No.17)								
	Basic Rate:	Tonne	56050.00						
	Area Weightage @ 6%		3363.00						
	Total		59413.00						
	Reinforcement for side wall						17.51		
			At 45 Kg % per cum				**7.88**	59413.00	468012.00
4	Providing and removing Centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / **rectangular sla**bs **/side walls** polygon in plan including cost of materials, labour complete as per specification and directions of the Engineer in charge.(Page No.16, Item NO.4.32)								
	Basic Rate:	Sqm	366.00						
	Area Weightage @ 6%		21.96						
	Total		387.96						
	Gramatana -Road- New Drain- Road joining NH **SIDE WALL**		4	75.00		0.60	180.00		
							180.00	387.96	69833.00
5	KSRB 4.2.2: Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 Kgs with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplastizers @ 3lts confirming to IS 9103-1999 RE affirmed - 2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, stair case lintels, retaining walls return walls, walls(anythickness) including attached plasters columns piers abutments pillars posts struts butresses string or lacing courses parapets copings, bed blocks , plain windows cills fillets etc., including cost of all materials labour HOM of machinery curing complete as per specifications. Seocifications No. KBS 4.1,4.6 (Page NO. 13, Item NO. 4.11)								
	Basic Rate:	cum	6011.00						
	Area Weightage @ 6%		360.66						
	Total		6371.66						
	Gramatana Road- Side wall		2.00	75.00	0.12	0.60	10.80		
	Bottom		1.00	75.00	0.75	0.12	6.71		
							17.51	6371.66	111536.00

KSRB M200-15.1: Dismnantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, inlcuding T & P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceabke material and stacking the serviceable materil, disposal of unserviceable material and stacking the serviceable material with all llifts complete as per specifications., ii) Rubble stone masonry in cement mortar .								
Basic Rate:	cum	244.00						
Area Weightage @ 6%		14.64						
Total		258.64						
Drain towards SWD		2.00	75.00	0.60	0.90	81.00		
						81.00	258.64	20950.00
KSRB 5.4-3: Providing and constructing granite / trap / basalt size stone masonry in superstructure with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 Page No. 23 / Item No. 5.12 / PWD SR 2016-17								
Basic Rate:	cum	5249.00						
Area Weightage @ 6%		314.94						
Total		5563.94						
Drain towards SWD		2.00	75.00	0.60	0.60	54.00		
Raising one course		2.00	75.00	0.60	0.45	40.50		
						94.50		
A. With Available stones				(New Stones)		**37.80**	5563.94	210317.00
70% of qty vide item No. 6								
Basic Rate	5249.00							
Deduct cost of available stones 100*11/each	1100.00							
Deduct 10% overhead charges (1000*10%)	110.00							
Net rate	4039.00							
Area Weightage @ 6%	242.34							
Total	4281.34					**56.70**	4281.34	242752.00
8 KSRB 15.1.4: Providing ruled pointing to coursed stone masonry with cement mortar 1:4, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications cement mortar 1:4. Page No. 113 / Item No. 15.4 / PWD SR 2016-17								
Basic Rate:	Sqm	95.00						
Area Weightage @ 6%		5.70						
Total		100.70						

	Drain towards SWD		1	75		1.00	75.00		
							75.00	100.70	7553.00
9	Providing and fixing 20 cm thick pre cast RCC covering slab using reinforced cement concrete M 20 mix with stone aggregate 20 mm and down size including centring shuttering reinforcement and bar bending machine mixed concrete laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing comlete as per specification (Data Rate)								
	DETA RATE	**Sqm**							
	Gramatana -Road- (BEFORE SWD)New Drain		1	125	0.60	1.20	90.00		
							90.00	5111.00	459990.00
10	Cement concrete pavement. Construction of un-reinfirced plain cement concrete pavement, thickness as per deisgn, over a prepraed sub base with OPC cement or any other type as per clause 1051..2.2 with 25mm and down size graded granite metal coarse aggregates and fine aggregates ,with superplastiser @ 3lts confirming to IS9103-1999 REAFFIRMED-2008, Mixed in a concrete mixer of not less than 0.6 cum capacity and approximate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates inlcuding levelling the form work as per drawing) and spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continous operation including, provision of contraction, expansion, construction operation including longitudinal joints, including groove cutting charges joint filler, sparation menebrane, sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specfication.M20 (AT 300 Kg per cum coarse aggregats @ 0.69cum and fine aggregate @0.43cum) (Pg No.177, It No.22.6.1)								
	Basic Rate:	cum	5866.00						
	Area Weightage @ 6%		351.96						
	Total		6217.96						
	CC ROAD								
	MAIN ROAD		1.00	235.00	4.50	0.15	158.63		
	ROAD JOINING TO NH		1.00	75.00	4.00	0.15	45.00		
	ROAD TOWARDS SWD		1.00	75.00	4.00	0.15	45.00		
							248.63	6217.96	1545941.00
11	KSRRB M100-1 Loading and unloading of stone boulder/stone aggregates/ sand/ kanker/ moorum. KSRRB M100-1:Placing tipper at loading point loading with front end loading, dumping turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 (Page 118, item No. 17.1)								

Basic Rate	cum	68.00				433.00	106.00	45898.00
Rs. 2.50 Tonne Km.						Ltd to		
Average Weight of earth 1.28 Tonne/Km.								
For 10 Km								
Rs.2.50X1.28TonneX10Km		32.00						
Total		100.00						
Add Area Weightage6%		6.00						
		106.00						
					Sub Total			4538725.00
					KRIDL Charges 8%			363098.00
					Total			4901823.00
				Add 1% Labour cess charges				49018.23
				Add 1% Third party inspection charges				49018.23
				Miscelleneous charges				140.54
					Total			5000000.00

1)This is certified that the work spot comes under BBMP limits only.
2) The work spot is inspected by me
3) The items Provided in the Estimate are quite Essential
4)The rates are as per CSR of 2016-17 year of PWD Bangalore Circle.

Asst.Engineer
Ward no.7

Asst.Exe.Engineer
Kodigehalli Sub-division
B.B.M.P.

Executive Engineer 19/04
Byatrayanapura Division
B.B.M.P.

19/04

ADMINISTRATIVELY SANCTIONED FOR Rs. 50.00 lakhs
Rupees fifty lakhs only
Under P-3111
Registered as EE ( )
Subject to conditions
enclosed to EE ( ) file
Dt
JC(4) pa/AS/22/17
dated 19-4-2017 RS - 50.00 lacs

Joint Commissioner
(Yelahanka Zone)
BBMP, Bengaluru-92

Technical Sanction
Accorded For 50.00 lakh Rs.
Head of A/C P3111
CER NO : 27 Dt:. 19/04/17

TA CE (YNK)